Fig. 1

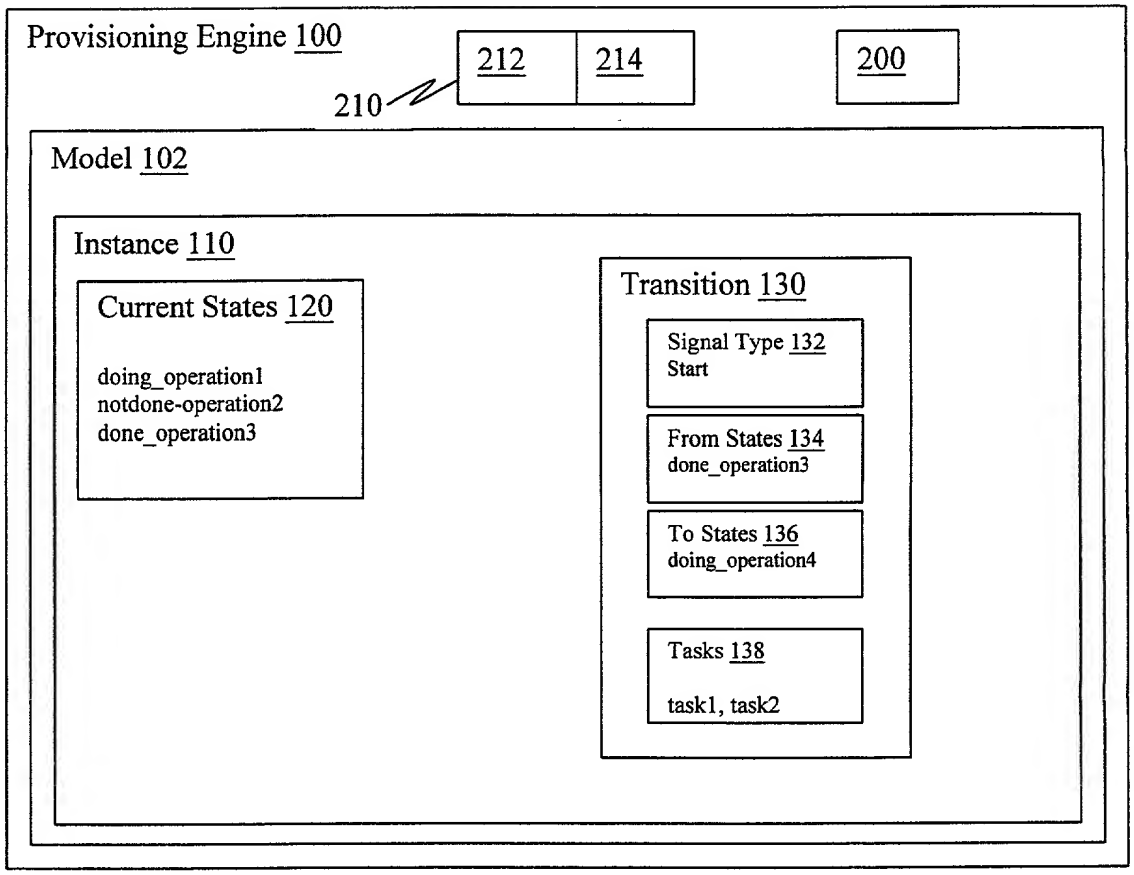

Provisioning Engine 100
212
214
200
210
Model 102
Instance 110
Current States 120
doing_operation1
notdone-operation2
done_operation3
Transition 130
Signal Type 132
Start
From States 134
done_operation3
To States 136
doing_operation4
Tasks 138
task1, task2

Fig. 2

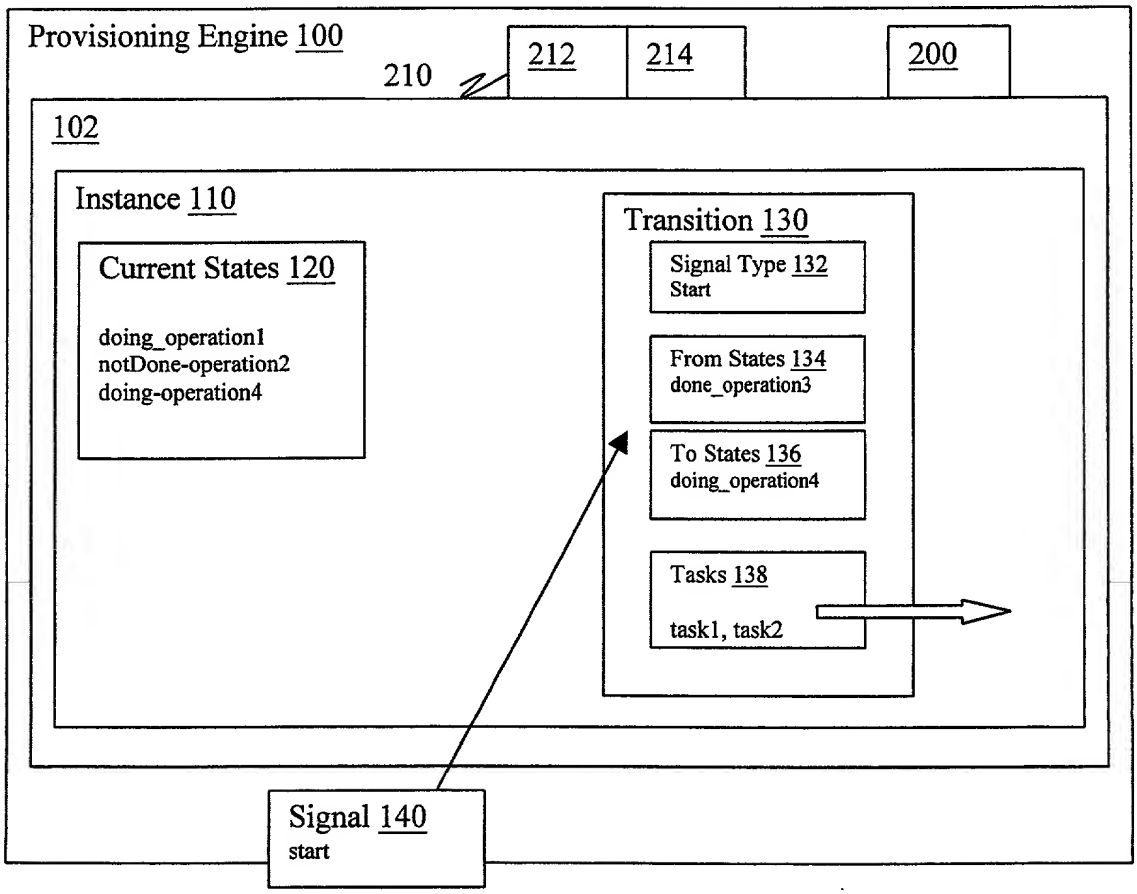
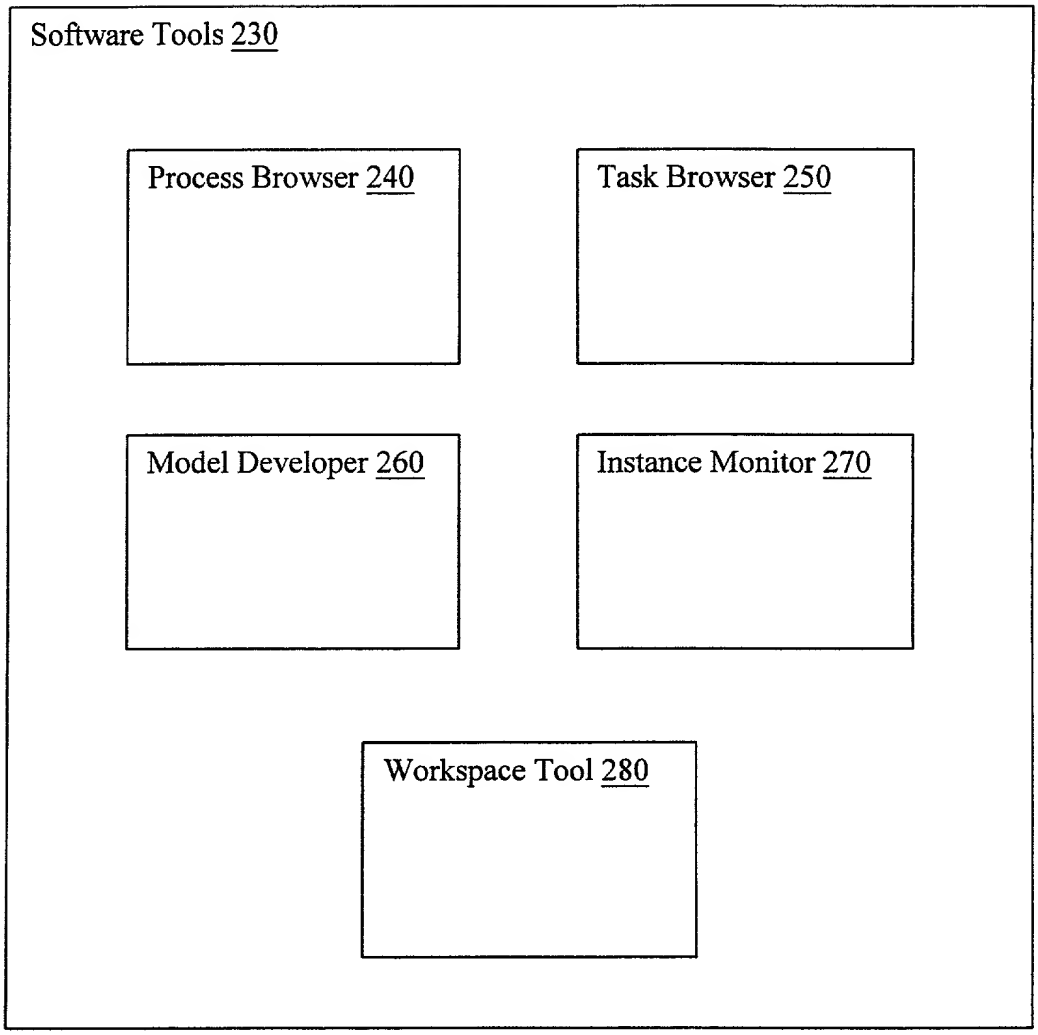

Provisioning Engine 100
210
212
214
200
102
Instance 110
Current States 120
doing_operation1
notDone-operation2
doing-operation4
Transition 130
Signal Type 132
Start
From States 134
done_operation3
To States 136
doing_operation4
Tasks 138
task1, task2
Signal 140
start

Fig. 3


Software Tools 230
Process Browser 240
Task Browser 250
Model Developer 260
Instance Monitor 270
Workspace Tool 280

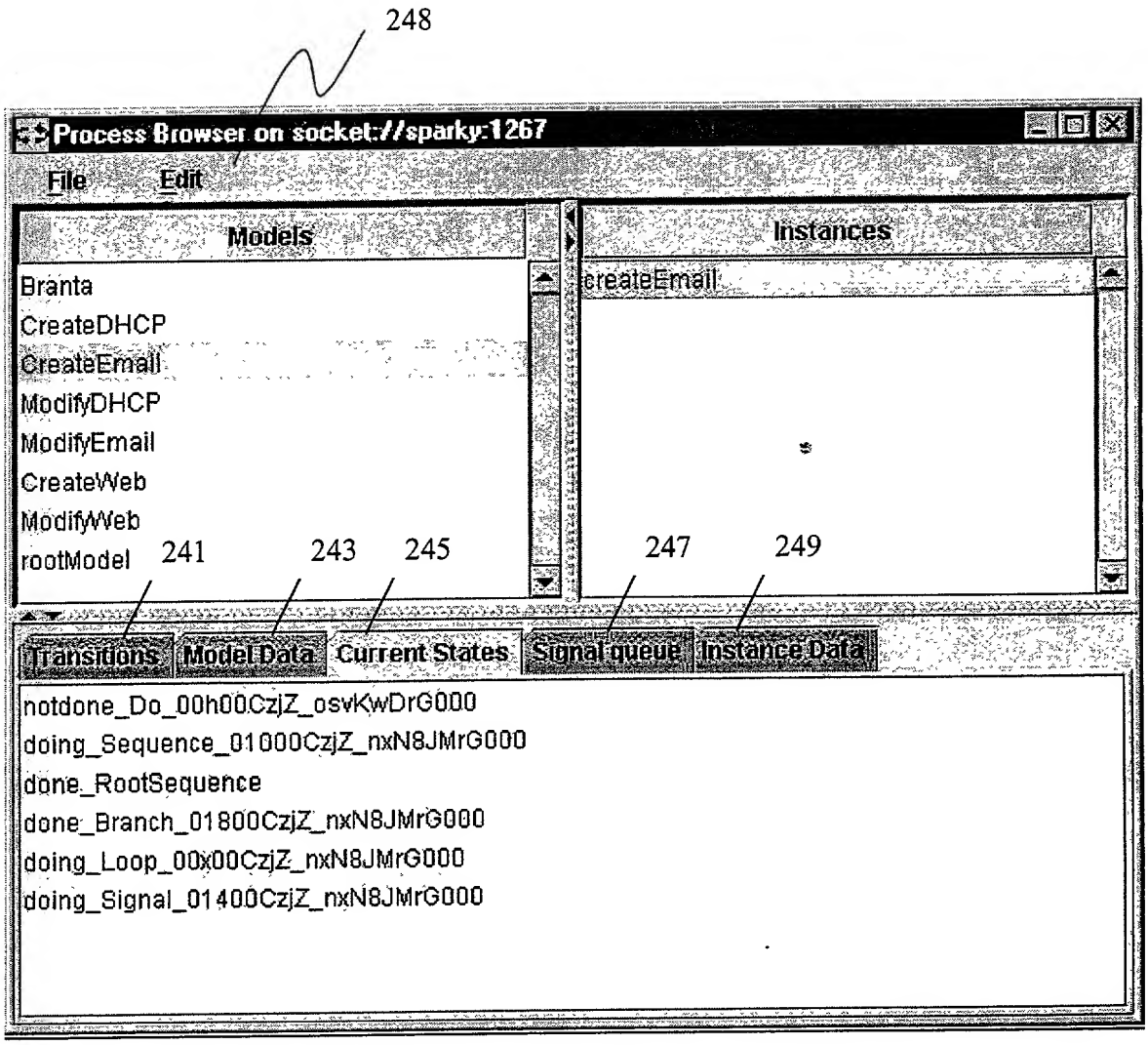

248
Process Browser on socket://sparky:1267
File
Edit
Models
Instances
createEmail
Branta
CreateDHCP
CreateEmail
ModifyDHCP
ModifyEmail
CreateWeb
ModifyWeb
rootModel
242
244
241
243
245
247
249
Transitions
Model Data
Current States
Signal queue
Instance Data
notdone_Do_00h00CzjZ_osvKwDrG000
doing_Sequence_01000CzjZ_nxN8JMrG000
done_RootSequence
done_Branch_01800CzjZ_nxN8JMrG000
doing_Loop_00x00CzjZ_nxN8JMrG000
doing_Signal_01400CzjZ_nxN8JMrG000
246

Fig. 4

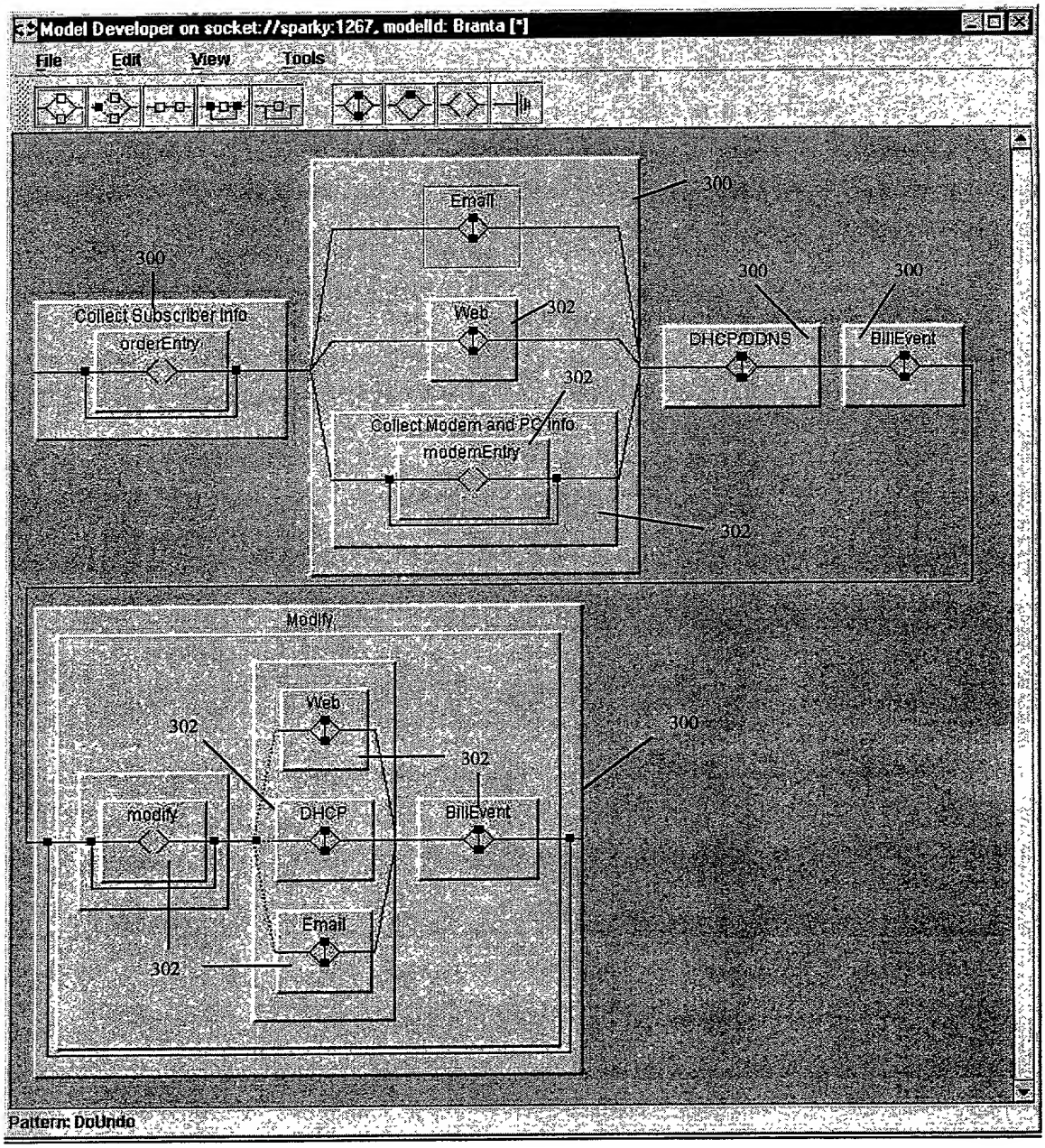

Model Developer on socket://sparky:1267, modelId: Branta [*]
File
Edit
View
Tools
Email
300
300
Collect Subscriber Info
orderEntry
Web
302
300
300
DHCP/DDNS
BillEvent
302
Collect Modem and PC Info
modemEntry
302
Modify
Web
302
300
302
modify
DHCP
BillEvent
Email
302
Pattern: DoUndo

Fig. 5

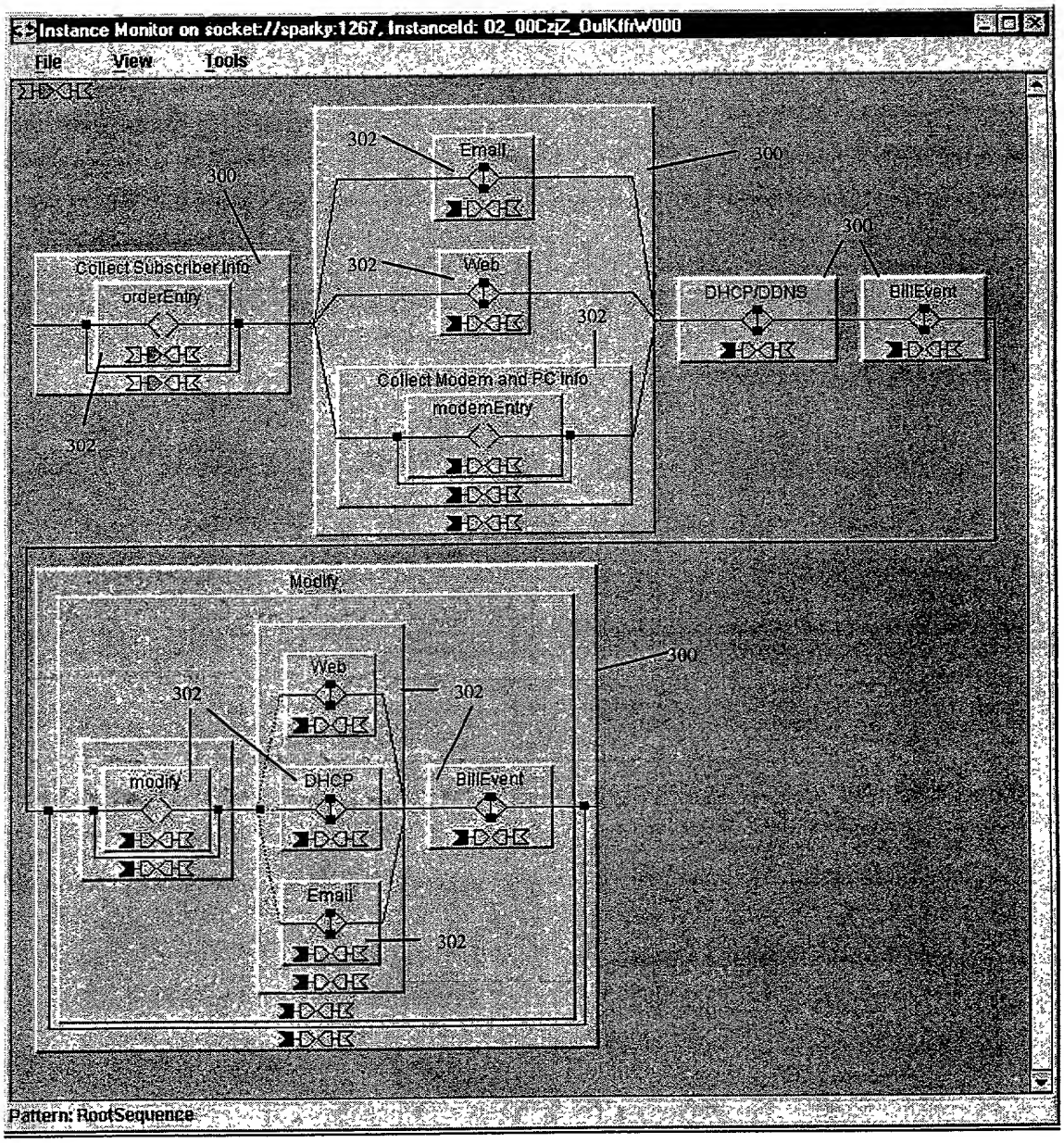

Instance Monitor on socket://sparky:1267, InstanceId: 02_00CzjZ_OulKfiWO00
File
View
Tools
302
Email
300
300
Collect Subscriber Info
orderEntry
302
Web
302
DHCP/DDNS
300
BillEvent
302
Collect Modem and PC Info
modemEntry
Modify
300
Web
302
302
modify
DHCP
BillEvent
Email
302
Pattern: RootSequence

Fig. 6

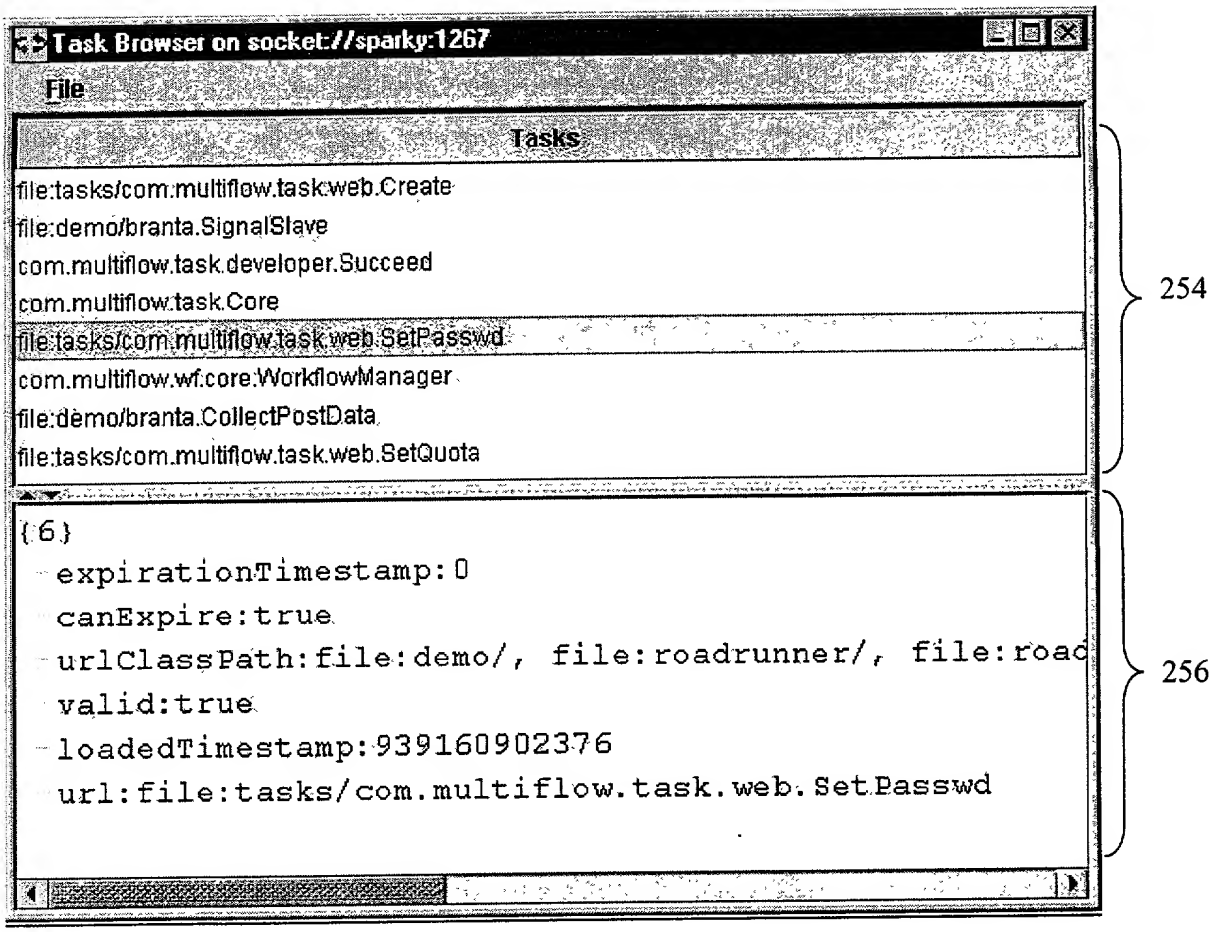

Task Browser on socket://sparky:1267
File
Tasks
file:tasks/com.multiflow.task.web.Create
file:demo/branta.SignalSlave
com.multiflow.task.developer.Succeed
com.multiflow.task.Core
file:tasks/com.multiflow.task.web.SetPasswd
com.multiflow.wf.core.WorkflowManager
file:demo/branta.CollectPostData
file:tasks/com.multiflow.task.web.SetQuota
{6}
expirationTimestamp:0
canExpire:true
urlClassPath:file:demo/, file:roadrunner/, file:roac
valid:true
loadedTimestamp:939160902376
url:file:tasks/com.multiflow.task.web.SetPasswd
254
256

Fig. 7

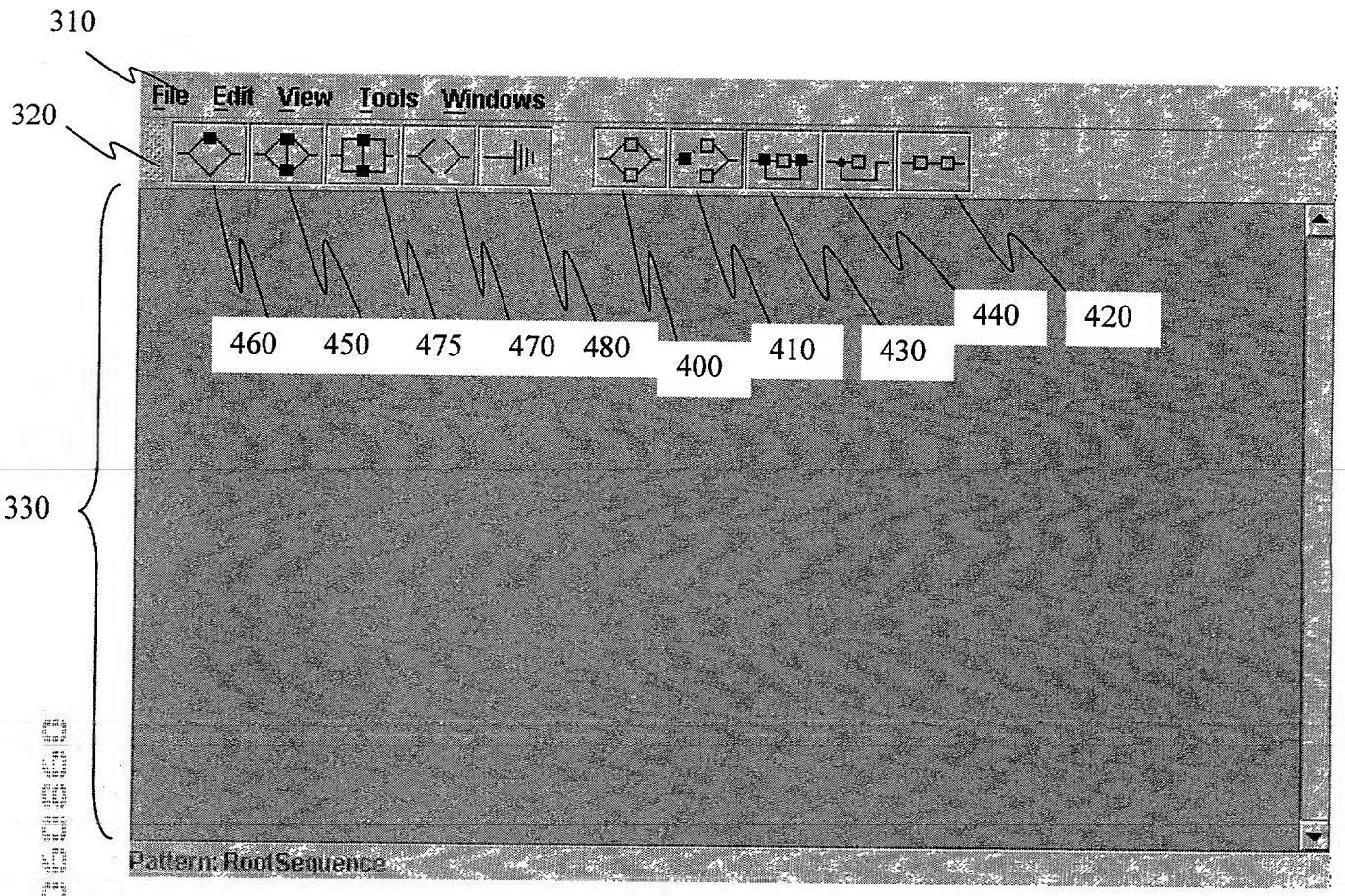

310
320
330
File Edit View Tools Windows
460
450
475
470
480
400
410
430
440
420
Pattern: RootSequence

Fig. 8

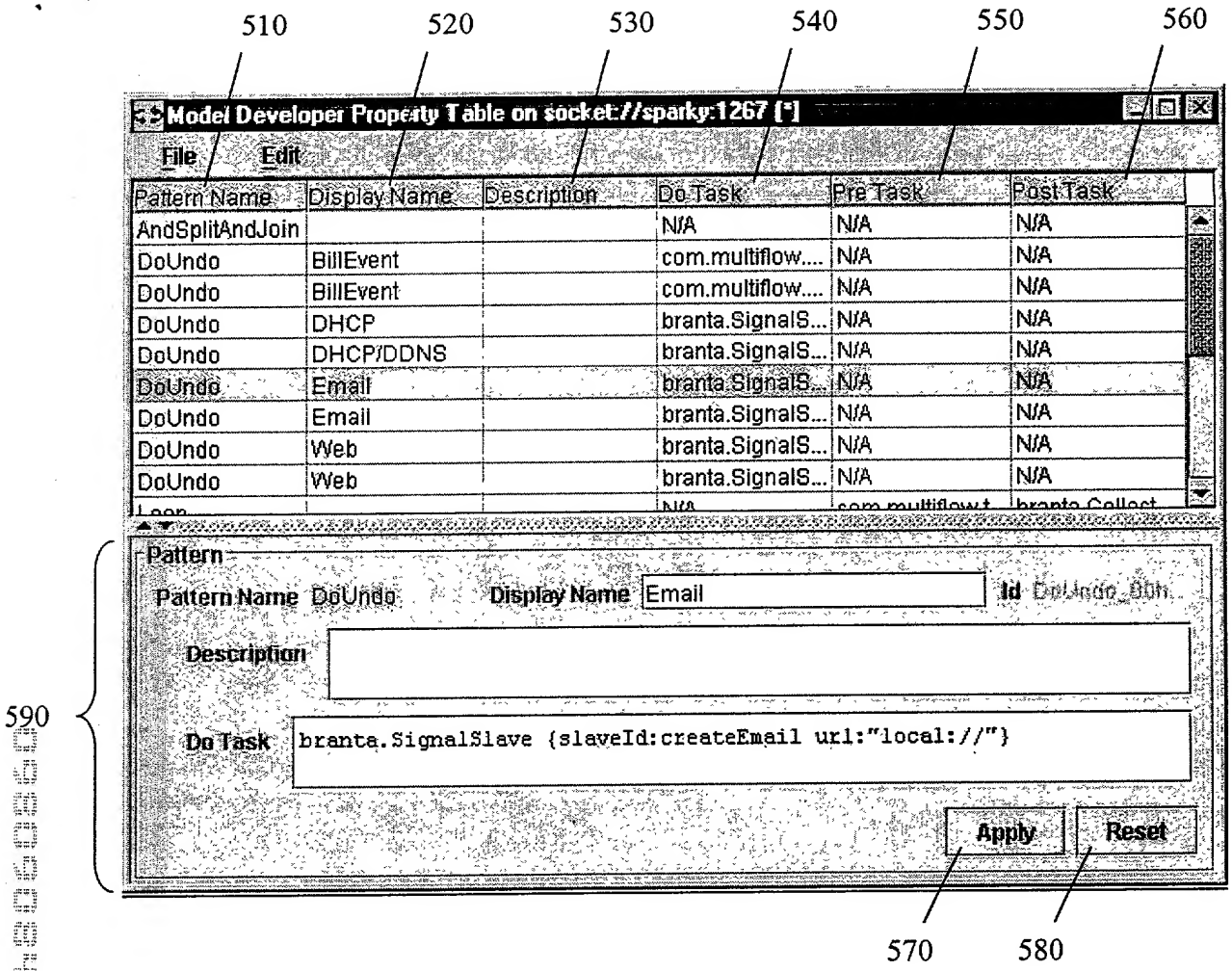

510
520
530
540
550
560
Model Developer Property Table on socket://sparky:1267 [*]
File
Edit
Pattern Name
Display Name
Description
Do Task
Pre Task
Post Task
AndSplitAndJoin N/A N/A N/A
DoUndo BillEvent com.multiflow.... N/A N/A
DoUndo BillEvent com.multiflow.... N/A N/A
DoUndo DHCP branta.SignalS... N/A N/A
DoUndo DHCP/DDNS branta.SignalS... N/A N/A
DoUndo Email branta.SignalS... N/A N/A
DoUndo Email branta.SignalS... N/A N/A
DoUndo Web branta.SignalS... N/A N/A
DoUndo Web branta.SignalS... N/A N/A
Pattern
Pattern Name DoUndo
Display Name Email
Id DoUndo_00h
Description
Do Task branta.SignalSlave {slaveId:createEmail url:"local://"}
Apply
Reset
590
570
580

Fig. 9

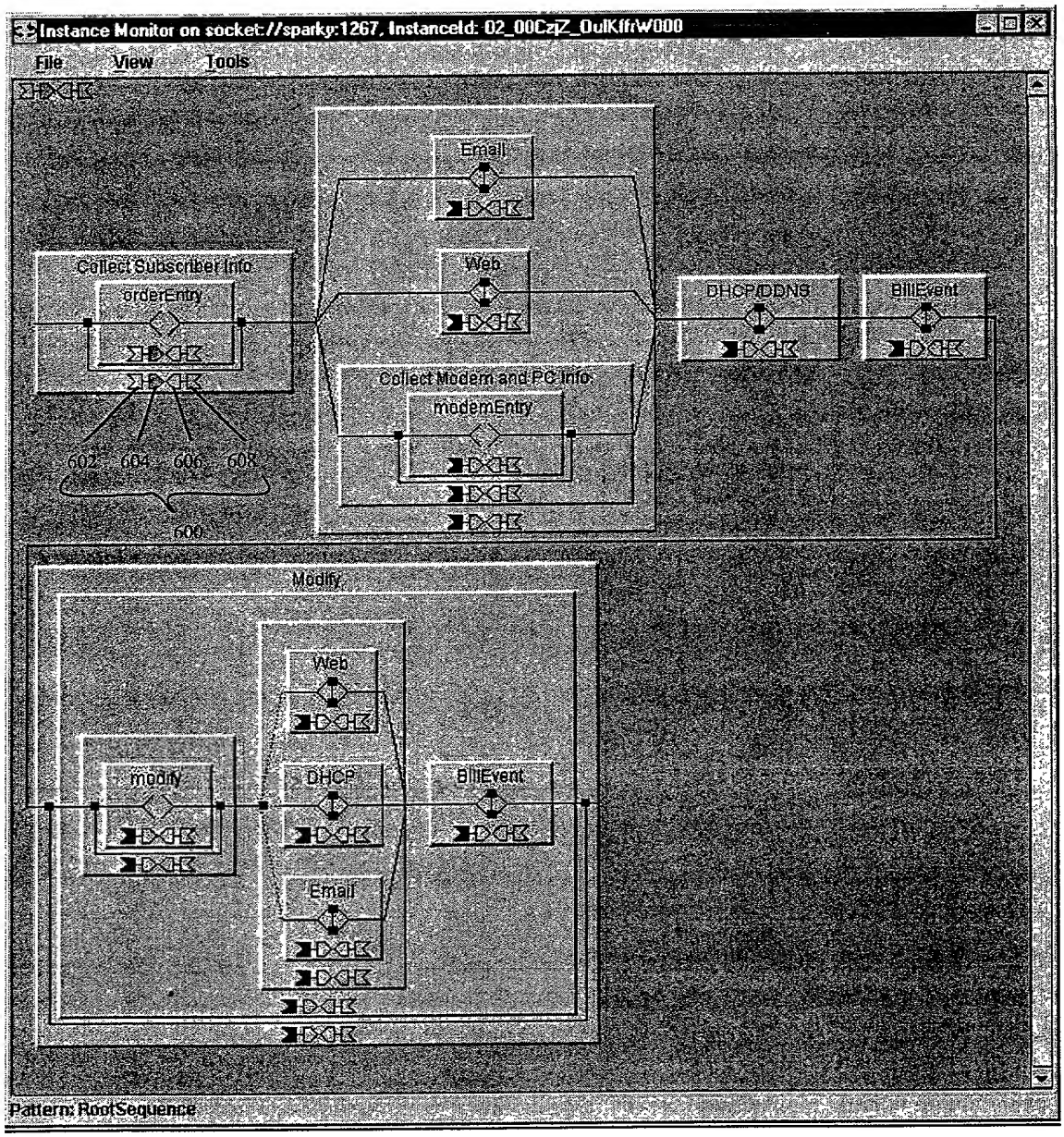

Instance Monitor on socket://sparky:1267, InstanceId: 02_00CzjZ_OulKffrW000
File
View
Tools
Email
Web
Collect Subscriber Info
orderEntry
DHCP/DDNS
BillEvent
Collect Modem and PC Info
modemEntry
602
604
606
608
600
Modify
Web
modify
DHCP
BillEvent
Email
Pattern: RootSequence

Fig. 10

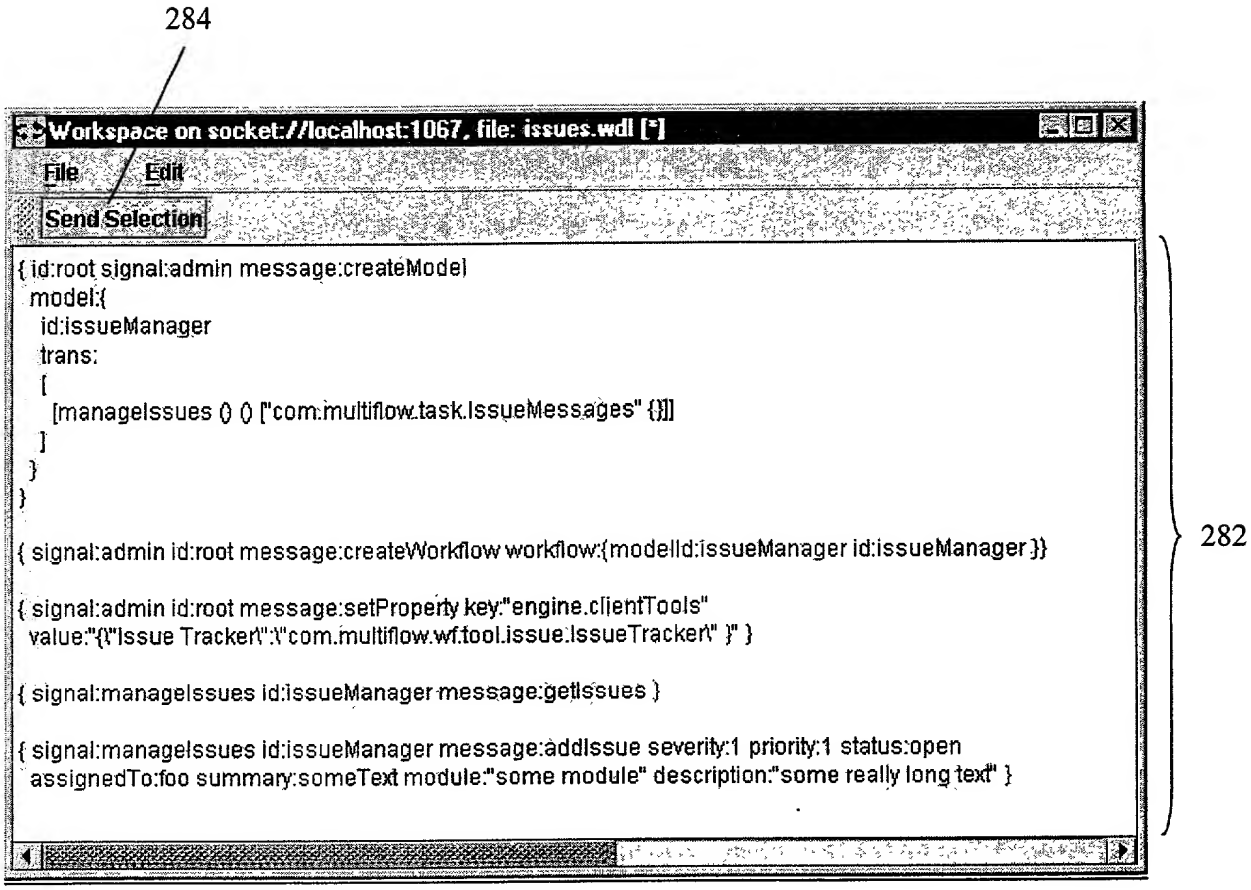

284
Workspace on socket://localhost:1067, file: issues.wdl [*]
File
Edit
Send Selection
{ id:root signal:admin message:createModel
model:{
id:issueManager
trans:
[
[manageIssues () () ["com.multiflow.task.IssueMessages" {}]]
]
}
}
{ signal:admin id:root message:createWorkflow workflow:{modelId:issueManager id:issueManager}}
{ signal:admin id:root message:setProperty key:"engine.clientTools"
value:"{\"Issue Tracker\":\"com.multiflow.wf.tool.issue.IssueTracker\" }" }
{ signal:manageIssues id:issueManager message:getIssues }
{ signal:manageIssues id:issueManager message:addIssue severity:1 priority:1 status:open
assignedTo:foo summary:someText module:"some module" description:"some really long text" }
282

Fig. 11

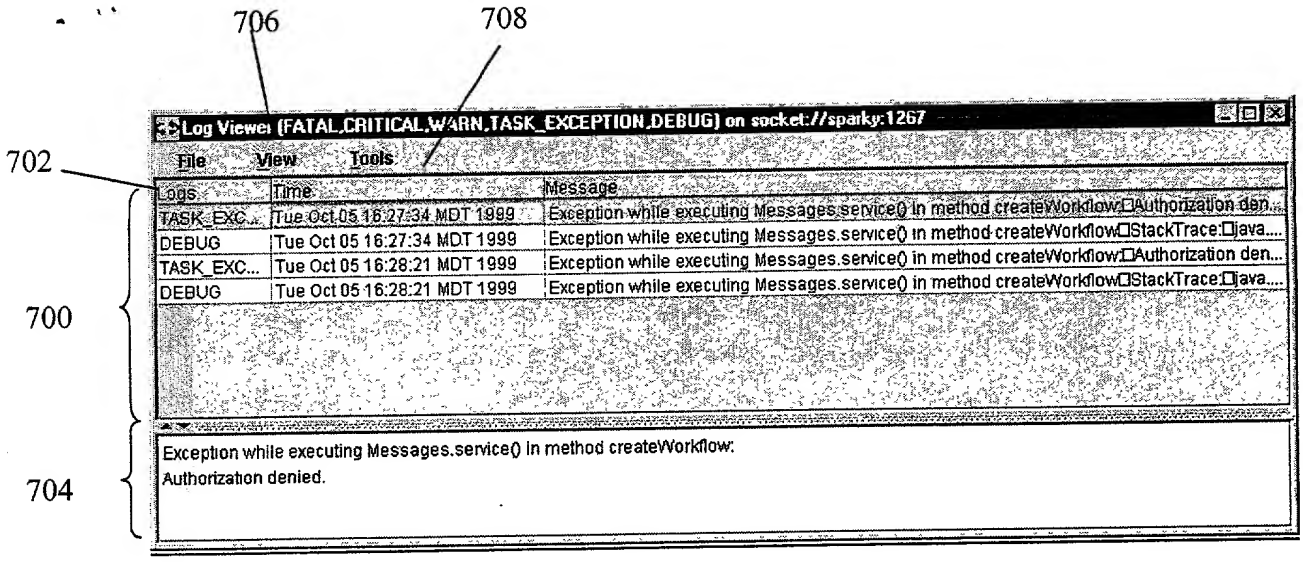

706
708
Log Viewer (FATAL,CRITICAL,WARN,TASK_EXCEPTION,DEBUG) on socket://sparky:1267
File
View
Tools
702
Logs
Time
Message
TASK_EXC...
Tue Oct 05 16:27:34 MDT 1999
Exception while executing Messages.service() in method createWorkflow:□Authorization den...
DEBUG
Tue Oct 05 16:27:34 MDT 1999
Exception while executing Messages.service() in method createWorkflow:□StackTrace:□java....
TASK_EXC...
Tue Oct 05 16:28:21 MDT 1999
Exception while executing Messages.service() in method createWorkflow:□Authorization den...
DEBUG
Tue Oct 05 16:28:21 MDT 1999
Exception while executing Messages.service() in method createWorkflow:□StackTrace:□java....
700
Exception while executing Messages.service() in method createWorkflow:
Authorization denied.
704

Fig. 12

Fig. 13

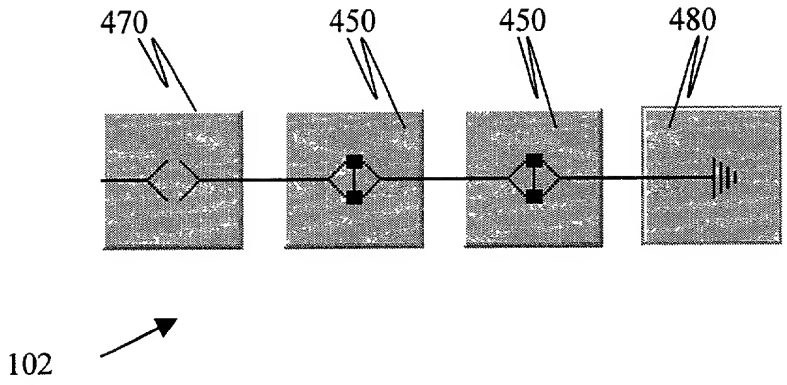


Fig. 14

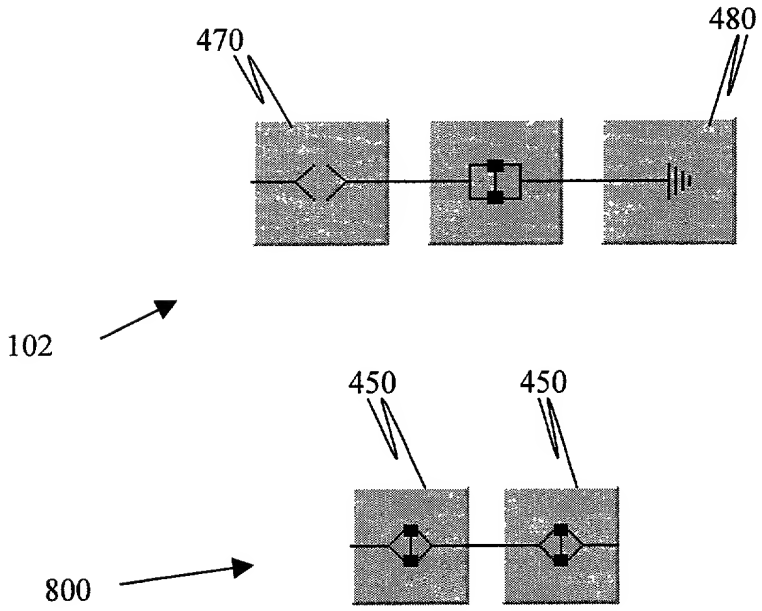
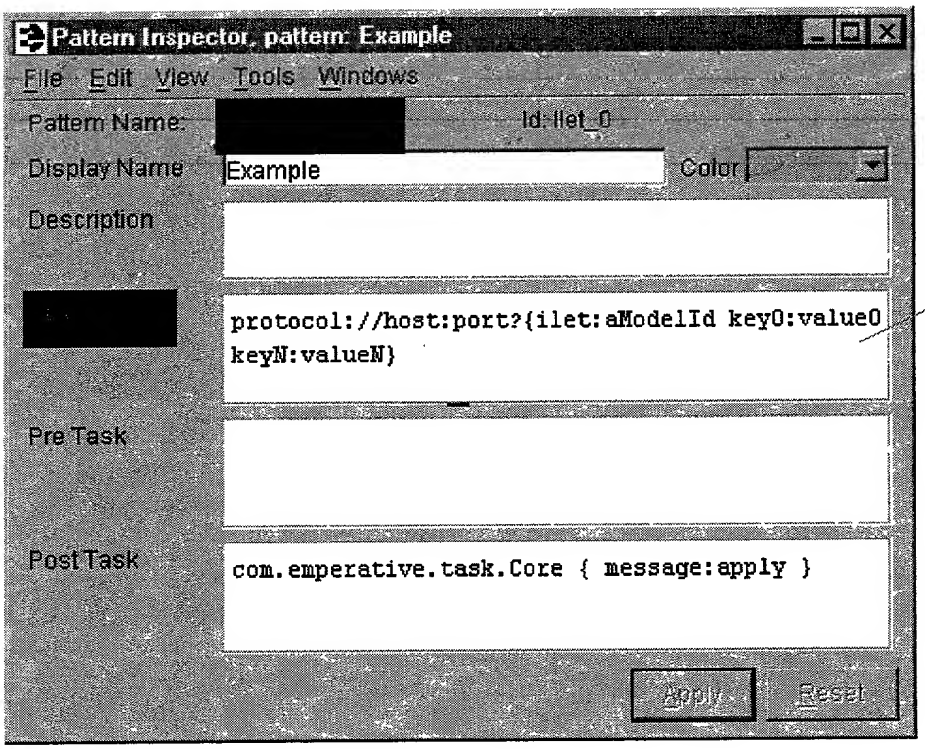


Fig. 15


Pattern Inspector, pattern: Example
File Edit View Tools Windows
Pattern Name:
Id: ilet_0
Display Name
Example
Color
Description
protocol://host:port?{ilet:aModelId key0:value0 keyN:valueN}
Pre Task
Post Task
com.emperative.task.Core { message:apply }
Apply
Reset

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